

Analysis of 370-550 °C Petroleum Fraction using an Agilent J&W FactorFour VF-5ht UltiMetal Column

Application Note

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Introduction

The hydrocarbon boiling point fraction of 370-550 °C mainly covers the C20-C40 hydrocarbons. These type of fractions may include heavy gas oil, petroleum waxes and lube stocks. On-column is the preferred injection mode for analyses of this type. The VF-5ht UltiMetal column can easily withstand the demanding conditions set for this analysis both in terms of robustness of column material and durability, and temperature stability of the VF-5ms liquid phase.



Conditions

Technique: GC

Column: VF-5ht UltiMetal, 30 m x 0.25

mm, df = 0.1 μ m (part number

CP9092)

Sample: Petroleum Fraction 370-550 °C

Sample Solvent: 0.1 % in CS2

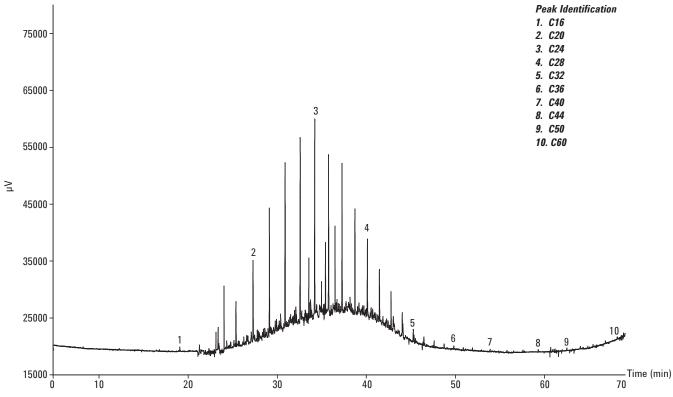
Carrier Gas: Hydrogen, 55 kPa (8 psi) Injector: 325 °C, on-column

Injection Volume: 1.0 µl

Temperature: 40 ° C (0.5 min) to 400 °C

@ 5 °C/min

Detection: FID, 340 °C



Low baseline at higher temperature enhancing signal-to-noise ratio and improving detection limits

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